

ATEX AND ACD VACUUM CLEANERS

PUMA 20 SP 1/2D Z20/21

ATEX EXPLOSION-PROOF INDUSTRIAL VACUUM CLEANER



POWER
15 kW - 20 HP



APPLICATION
Combustible dusts



CAPACITY
175Lt

FEATURES

- Suitable and safe for intensive work in Atex 21 zones
- High efficiency antistatic filtration with integrated automatic cleaning system and grounding
- Maximum power thanks to the Atex certified blower
- Ideal for large centralized suction systems

HIGHLIGHTS



SUCTION UNIT

The suction unit is a manufacturer-certified Atex side channel blower with direct coupling between motor and impeller. The Side Channel Blower is equipped with a safety valve that ensures continuous work, without any maintenance.



FILTER UNIT

Filtration is ensured by polyester cartridge filters in class M (filtration efficiency 1 micron) with high filtering surface area, which guarantees the passage of air even with dirty filter.



SP FILTER CLEANING SYSTEM

Automatic filter cleaning system in reverse flow of air at 6 bar (compressed air not supplied as standard). Each filter is cleaned at regular, alternately adjustable intervals without interrupting suction. Ideal for fine and difficult dust.



COLLECTION UNIT

The material is collected inside an AISI 304 stainless steel container, complete with a metal handle that allows its release, to avoid any sparks that could be generated by the electrostatic charge.

TECHNICAL DATA

MOTOR

Typologies	Atex side channel blower
Power	15 kW - 20 HP
Frequency	50/60 Hz
Voltage	400 V
Vacuum in continuous run	350 mBar
Maximum air flow	920 m3/h
Insulation class	65 F IP
Noise level	74 dB(A)

MACHINE

Atex marking	II 1/2D Ex htc IIIC T140°C Da/Dc
EX category	1/2D
Operating temperature	-10/+40 C°
Suction inlet	100 Ø mm
Collection system	AISI304 stainless steel container
Capacity	175 Lt
Dimensions	850 x 1550 mm
Height	1980 mm
Weight	290 Kg
Safety valve	Pressure relief valve

FILTRATION

Primary filter type	4x Cartridges
Filter surface	120000 cm2
EN 60335-2-69 filtration class	M
Media	Antistatic polyester
Filter Cleaning System	Automatic SP

FEATURES



THIRD PARTY ATEX CERTIFICATION



ELECTRICAL PANEL

Electrical panel, implementable with additional functions



4-PIN ATEX INDUSTRIAL PLUG



ANTISTATIC FILTRATION

Antistatic filtration to discharge static energy



VACUUM GAUGE

Vacuum gauge for indication of filter clogged or in need of replacement



POWER SUPPLY CABLE



WHEEL WITH BRAKE

Non-marking wheel with integrated brake



WHEELS

Non-marking pivoting wheels



STEEL CONSTRUCTION

Rugged industrial coated steel construction



CYCLONIC EFFECT

Tangential inlet and cyclone installed



PRV

Pressure relief valve installed



GRD

Grounding



BX

Stainless steel bin AISI 304

OPTIONS

AVAILABLE FILTER CLEANING SYSTEMS



SP

Automatic reverse jet cleaning system
 Antistatic M class filter (EN 60335-2-69), 4
 Polyester filter cartridges, 12 m² filter surface

AVAILABLE FILTER MEDIA



HEPA 14

Absolute filter (EN 1822)
 110.000 cm² filter surface
 H14 Class Filter (EN 1822)
 Glass fiber



PTFE ANT

Antistatic PTFE filter (M class EN
 60335-2-69)

STRUCTURE AND OPTIONS

60^{Hz}

60HZ

Available in 60Hz version



3 YEARS WARRANTY

Purchasing the replacement filter along with the vacuum



CONTAINER EMPTYING KIT

System for easy container emptying using forklift lifting.



FLAMELESS VENT

A valve that contains the flame and the overpressure generated by a possible explosion.



PANEL VENT FOR DIRECTIONAL EXPLOSION

An explosion vent designed to break at a specific pressure and release the explosive pressure in a safe area.
Panel vent for explosion



FKL

Forklift bracket



6X

Stainless steel bin and chamber AISI 304